

Dt: 26/11/25

Day - 05

## conditional statements:-

conditional statements allows your program to make decisions based on conditions

They help you execute different blocks of code depending on whether a condition is 'true' or 'false'

Types of conditional statement:-

1. if
2. if else
3. if elif else.
4. nested if else

## 1. If statement:-

use to run a block of code only if a condition is true:

Syntax:-

```
if condition:  
    # code to execute.
```

Example:-

```
age = 20
```

```
if age > 18:
```

```
    print("you is a adult")  
    print("you is a minor")
```

## 2. If else statement

Runs one block if the condition is true, otherwise another block.

Syntax:-

```
if condition:  
    statement  
else:  
    statement
```

Example:-

```
num = 5
```

```
if num > 0:
```

```
    print("positive number")
```

```
else:
```

```
    print("negative number")
```

## 3. If elif else statement

used when you have multiple conditions

Syntax:-

```
if condition 1:  
    # code 1
```



```
elif condition 2:  
    # code2  
  
else:  
    ("stfu or staying you")  
    # code3
```

example:-

```
marks = 85  
if marks >= 90:  
    print("Grade A")  
  
elif marks >= 75:  
    print("Grade B")  
  
elif marks >= 50:  
    print("Grade C")  
  
else:  
    print("fail")
```

#### 4. Nested If statements

if inside another if.

Syntax:-

```
if condition 1:  
    # code block for condition 1  
  
    if condition 2:  
        # code block for condition 2  
  
        if condition 3:  
            # code block for condition 3  
  
    else:  
        # code block if condition 2 is true
```

```
else:  
    # code block if condition 1 is false.
```

example:-

```
age = 20  
country = "India"  
if age >= 18:  
    if country == "India":  
        print("eligible to vote in India")
```



else:

    print("eligible but not in India")

else:

    print("NOT eligible to vote").